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AMPHIPOD NEWSLETTER 44

Dear Amphipodologists,

We hope this newsletter finds of you safe and healthy. The time since many of us last met in Dijon for a wonderful week of amphipodology has been difficult and heartbreaking. Many of us have also been sent into isolation and "home-officing", and the daily contact with our colleagues is now more than ever depending on emails and electronic platforms for contact. Conferences and meetings are rapidly being moved to electronic platforms or postponed, the latter being the case for our beloved ICA, see more about that on page 64.

We are happy to see that the facebook group is active, and our bibliography might give indication that, for some of us, the time away from the lab has brought about the possibility to focus on writing. Writing publications is not an easy task when combined with homeschooling or care for family-members and neighbours "locked up" in their homes, and we are very impressed with the 397 publications the bibliography presents. Also, make sure to check out the last page for a new feature: "the old photo". We hope this will bring happy memories to some, and pleasure to all.

2020 has also seen the debate of scientific recognition (in the form of impact factor) for one of the journals several of our taxonomy-oriented colleagues are using - Zootaxa. After a month of not being considered for IF, we are happy the journal again is "counted".

We have lost our cherished fellow amphipodologists Jean-Claude Sorbe and Vadim V. Takhteev since we published the last newsletter, and in their honour we bring their In Memoriams, written by their friends and colleagues. Augusto Vigna Taglianti, known to many for his work on amphipods with Sandro Ruffo, is remembered in *Fragmenta ecologica* 51(2): 105-125 (2019).

Statistics from this Newsletter

4 new higher taxa

7 new families

3 new subfamilies

19 new genera

92 new species

Wim and Anne Helene

Jean-Claude Sorbe In Memoriam

Jean-Claude Sorbe died at the end of 2019 following a heart attack after a trek in the Pyrénées, an activity that was one of his passions.

On my return from Quebec in 1987, after having done part of my post-doctorate with the Professor Pierre Brunel of the University of Montreal on the suprabenthic communities of the Gulf of St-Lawrence, and built a suprabenthic sledge inspired of Brunel type, that we started working together in 1989 as part of the thesis of Marta Elizalde.



Jean-Claude in the collections at the Arcachon Marine Station, from Le Bassin Magazine, 2011

Like several researchers who worked on the stomach contents of the demersal fish, Jean-Claude was impressed by the number of crustaceans consumed by these fish living near the sea bottom, while their abundance sometimes seems low in the benthic sampling with dredges or grabs gears.

Born in 1947, in the Dordogne, to whom he remained strongly attached, and where he learned his first experience with the natural sciences in the sampling of freshwater aquatic environments, he studied natural sciences at the University and completed his postgraduate thesis in 1972 at the University of Aix-Marseille on the ecology and food ethology of the demersal fish from the southern continental shelf of the Bay of Biscay. During his thesis, he collected fish offshore Arcachon by embarking on professional trawlers. After a period of cooperation as a teacher in Algeria, he returned to France where he was appointed as a researcher at the Centre National de la Recherche Scientifique (CNRS) in the late 1970s.

It was, in 1978, that he used for the first time a suprabenthic sledge off the Basque Country on the continental shelf at a depth of about 100 m. Then he built several sledges before arriving at a more definitive form allowing both to sample the water-sediment interface and the first meter of the water layer just above the bottom. Hyperbenthos – Suprabenthos was the subject of long discussions and questions that we had, and Jean-Claude even questioned the French Academy which confirmed that the right term was the suprabenthos.

The suprabenthos fascinated Jean-Claude all the rest of his career punctuated by the defence of his '*thèse d'Etat*' in 1984 at the University of Bordeaux on the subject: Contribution to the knowledge of the suprabenthic communities from the southern part of the Bay of Biscay. It was in this area that Jean-Claude had made more his samplings of the bathyal fauna of the continental slope often difficult to sample given the depth and the presence of canyons. The canyons of Cap Ferret and Cape Breton had no secrets for Jean-Claude, it was there that he made the greatest part

of his sampling at sea on oceanographic boats and in particular the '*Côte d'Aquitaine*', with which he explored the upper part of the continental slope with *Marat*, and I was able to participate in some campaigns with Jean-Claude and *Marat*, then it went deeper up to 3,000 m in the canyons of Cape Breton and Cape Ferret. It was an opportunity for him to participate in national programs coordinated by his laboratory colleagues on the functioning of the deep ecosystem of the southeast Bay of Biscay.

I also had the pleasure of participating with Jean-Claude in an expedition south of the Azores to explore the deep seamounts in 1993 aboard the Oceanographic Vessel *the Suroit*. We were able to sample the suprabenthos from the seamount summits like Meteor and Atlantis but also on the slope up to 2250 m. In the mid-1990s, a publication began, on the presence of the neritic mysid *Anchialina agilis* on these offshore systems. This project was orphaned. It remains for me to finish this paper; it will be my tribute to Jean-Claude.

During the campaigns at sea, I was able to appreciate how happy Jean-Claude was and participated in the life of the researchers on board with very good relations with all the crews of the oceanographic ships. This was in contrast to Jean-Claude at the Arcachon Marine Station, where he was seen as a discreet or secret researcher, often working alone and asking very little for the laboratory's financial resources. However, he has also helped many students and doctoral students at the Arcachon Marine Station in the identification of crustaceans including amphipods. Moreover, it was most often with his own resources that he financed part of the small material needed for his collections and his participation in national or international scientific conferences and symposia, often accompanied by his wife Aouda, who actively and continuously participated in the sorting of Jean-Claude's many samples. She regularly came to the laboratory to help Jean-Claude; his brutal death is a terrible ordeal for her as their relationship was so close.

Jean-Claude had always much international collaboration, especially with many Spanish and Portuguese colleagues. He published many notes on the suprabenthos with several colleagues including Joan Cartes, Carlos San Vicente, Jordi Corbera, Inmaculada Frutos with whom he worked in recent years of his scientific activity. He also made some publications with our colleague Jose Manuel Guerra-García. He had the opportunity to work on the suprabenthos of the Mediterranean Sea, Catalan Sea and along the coast of Israel and the Levantine Basin in the eastern Mediterranean Sea, and in the Antarctic Ocean, around the South Shetland Islands and Bransfield Strait. During his career, he had participated in oceanographic campaigns in Antarctica and off the Israeli coast. Recognized as a specialist in amphipods, he was associated with the exploitation of samples coming from southern Spain or southern Iceland in the Atlantic or from campaigns in Papua New Guinea, which were the subject of descriptions of new species for science.

Although modest on the administrative aspects of the research, he co-organized with his colleague Jean-Marie Jouanneau, the third International Symposium of Oceanography of the Bay of Biscay, at the Marine Station of Arcachon in 1993, colloquia in which he highlighted his numerous collaborations with his Spanish colleagues.

Recently, always with his Spanish colleagues, he explored an area still very little known: the Le Danois Bank, off the coast of Cantabria, surrounded by a complex system of canyons and channels, at depths ranging from 500 to 4,000 m.

All the work carried out by Jean-Claude in the Bay of Biscay has made it possible to know much better the continental platform off Arcachon, as well as the underwater canyons of Cap Ferret and Cap Breton.

Since his retirement in 2012, he has continued to work at home where he had set up a laboratory at the same time by continuing contributions with colleagues at the Arcachon Marine Station and in particular with Benoit Gouillieux on the amphipods, but also with Laure Corbari as correspondent at the Muséum national d'Histoire naturelle in Paris, the address he gave for his last publications. Jean-Claude has made good use of much of his biological material collected throughout his career and preserved in good condition and in his collections accumulated over time are precious that still need to be studied. Who will spend time on it is a real question.

In fact, Jean-Claude Sorbe did little work on the Arcachon Basin, but he recently intervened to identify invasive species including isopods, probably imported in the 1970s at the same time as the Japanese oyster *Crassostrea gigas*.

He will remain the man of the deep suprabenthos of the Bay of Biscay, an excellent zoologist, an incomparable observer, a field oceanographer, a perfectionist and an indefatigable worker.

Among the suprabenthic fauna, that of the Peracarida is particularly rich, Jean-Claude was interested in three groups, the amphipods, the cumaceans and the mysids. But he also described new species of isopods.

Jean-Claude Sorbe had described 12 new species and two new genera of amphipods for the science:

- Apherusa delicata* Krapp-Schickel & Sorbe, 2006
- Autonoe catalaunica* Ruffo, Cartes & Sorbe, 1999
- Bathymedon longirostris* Jaume, Cartes & Sorbe, 1998
- Carangolia barnardi* Jaume & Sorbe, 2001
- Dorotea* Corbari, Frutos & Sorbe, 2019
- Dorotea papuana* Corbari, Frutos & Sorbe, 2019
- Dulichlopsis diana* Corbari & Sorbe, 2017
- Elasmopus thalyae* Gouillieux & Sorbe, 2015
- Eusirus bonnieri* Peña Othaitz & Sorbe, 2020
- Leucothoe cathalaa* Frutos & Sorbe, 2012
- Liropus cachuchoensis* Guerra-García, Sorbe & Frutos, 2007
- Papadocus* Corbari & Sorbe, 2015
- Papadocus blodiwai* Corbari & Sorbe, 2015
- Protoaeginella spinipoda* Laubitz & Sorbe, 1996

He is also the author of the descriptions of nine other new species for science including one Ciliophora, five isopods and three mysids.

Six species have been dedicated to Jean-Claude Sorbe, including a polychaete, a Scyphozoa Coronamedusae, a cumacean, a chaetognath, a mysid and an amphipod *Ampelisca sorbei* Dauvin & Bellan-Santini, 1996.

Jean-Claude was the supervisor of Marta Elizalde Arriaga PhD on The bathyal suprabenthic communities of the southern margin of the Cap-Ferret canyon (Bay of Biscay) defended at the University of Bordeaux in 1994 and with he continued to publish until 2014 on the suprabenthic fauna of the continental slope of the Bay of Biscay. Finally he had written with Inmaculada Frutos and Angelika Brandt a synthesis on deep communities, an article that will make a date on the knowledge of this interface compartment between the benthic and the pelagic systems (Frutos, I., Brandt, A., Sorbe, J.C., 2017. Deep-Sea Suprabenthic Communities: The Forgotten Biodiversity. Marine Animal Forest, 475-503).

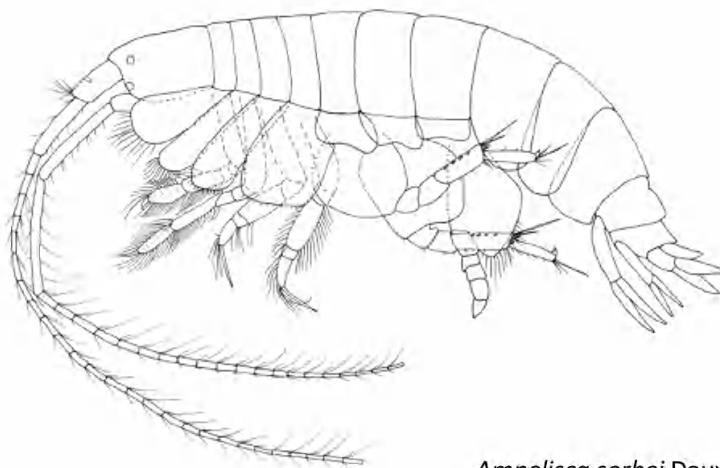


Jean-Claude at the 17th ICA International Colloquium on Amphipoda, September 2017, Trapani, Italy

Jean-Claude still had many projects that we had discussed at the last conference on amphipods last August 2019 in Dijon, he disappeared suddenly too early to bring them to completion.

Jean-Claude was a colleague, a friend, with whom it was very pleasant to work and exchange, even though we met too rarely, he spoke passionately about his crustaceans and his mountain hikes. The amphipod and crustacean community will miss him.

Jean-Claude Dauvin, July 22, 2020



Ampelisca sorbei Dauvin & Bellan-Santini 1996

Vadim V. Takhteev In Memoriam

"You need to do miracles with your own hands"

(Alexander Green " Crimson Sails ")

The note is dedicated to Doctor of Biological Sciences, Professor Vadim V. Takhteev. His professional and life path and main scientific achievements are briefly presented.

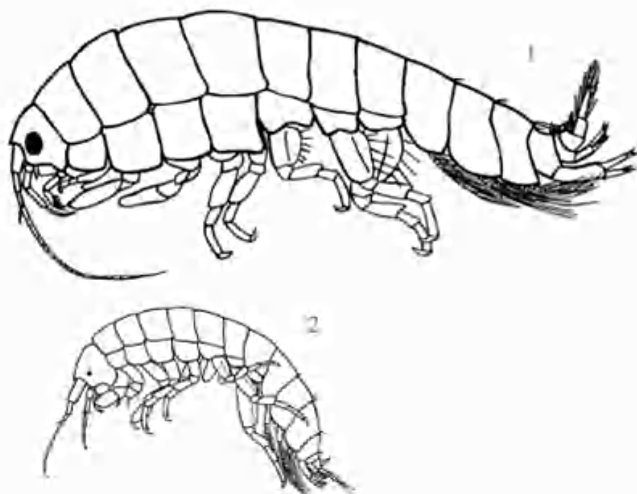


This photo was made at Black Sea, Sevastopol in October, 2017 during Conference "Prospects and directions development of aquatic ecology ", dedicated to famous ecologists Viktor S. Ivleva and Irina V. Ivleva

Good scientists become due to good teachers, hard work and the ability to set any goals for themselves and achieve them. Doctor of Biological Sciences and Professor of Irkutsk University, Vadim V. Takhteev possessed just such a character. He loved to work tirelessly and as a result, he discovered many new and unknown things for science. There were no harbingers of trouble, but on August 25, 2020, at the age of 55, Vadim Takhteev's life suddenly ended...

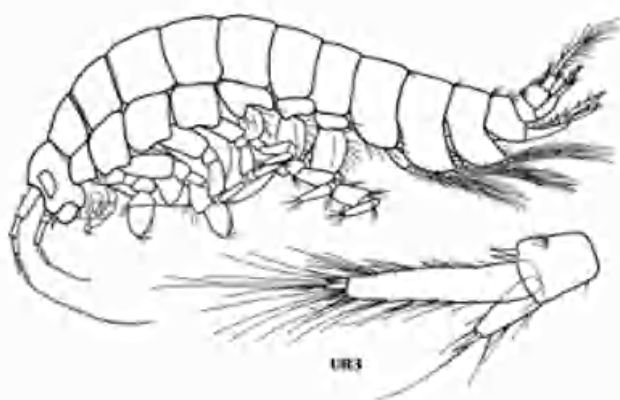
Vadim Takhteev was born on March 27, 1966 in Irkutsk. In 1988 he graduated with honors from the Faculty of Biology and Soil Science of the Irkutsk State University. During 1988–1990 he was affiliated at Limnological Institute of the Siberian branch of the USSR Academy of Sciences. In 1990–1991 Vadim was a assistant at the Department of hydrobiology and invertebrate zoology in the University. From 1992 to 1994 he continued as a PhD student at this University, where in 1994 he had successful defense of his dissertation focusing on taxonomy and ecology of Baikal amphipods. This work was supervised by famous scientist Yaroslav I. Starobogatov, the famous Russian zoologist, professor and chief scientist at the Zoological Institute of the Russian Academy of Sciences. In the course of further career, Vadim Viktorovich was the head of the Baikal Museum, researcher, assistant professor at the university. In 2001, at the Zoological Institute of the Russian Academy of Sciences, he defended his doctoral dissertation entitled "Amphipods of Lake Baikal, their taxonomy, phylogeny, evolution, distribution and ecology."

Since 2003, Vadim has worked as a Professor at the Department of Hydrobiology and Zoology of Invertebrates at Irkutsk state university (ISU). The main discipline in which Vadim



Female *Pachyschesis indiscretus* (total length 8 mm) – 1,
male *P. pingiculus* (4,8 mm) – 2

Vadim was a member of the dissertation council at Irkutsk State University, chairman of the Irkutsk (Baikal) branch and a member of the Central Council of the Hydrobiological Society at the Russian Academy of Sciences, vice-president of the Russian Carcinological Society and a full member of the Moscow Society of Nature Experts. He was in the Federal Register of Experts in the Field of Scientific and Technical Knowledge of the Russian Federation and Experts of the Russian Academy of Sciences, was a member of the Commission for the Protection of Rare and Endangered Plants, Animals and Other Organisms under the Government of the Irkutsk Region.



Pachyschesis lamakini Tachteew, sp. n., female
(general view, holotype)

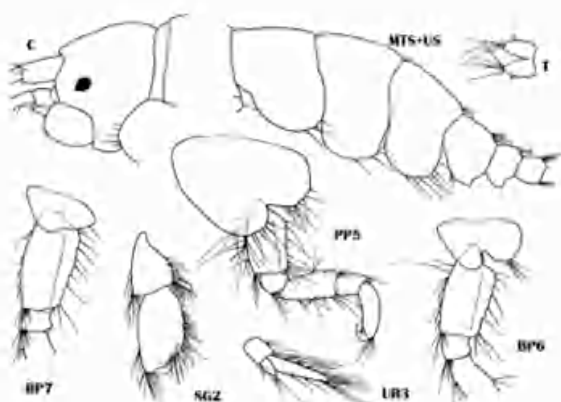
Viktorovich taught classes for students of the Biology and Soil Faculty of Irkutsk State University is "Baikalovedenie [Baikal Science]". In 2009, as one of the executive editors, he created a team of authors from 46 leading scientists of the Baikal region and began preparing a fundamental two-volume book on this subject, which should become a detailed textbook for students and, at the same time, a handbook for scientists. The book was published in 2012. In 2014, Vadim became the Laureate of the Irkutsk Region Competition and the Governor's Prize in Science and Technology.

Vadim managed a number of grants from the Russian Foundation for Basic Research, two projects under the Program on Conservation of Russia's Biodiversity ("Baikal Component"), a government contract under the federal program "Priority Areas for the Development of Science and Technology" as well as grants from the Irkutsk Regional Branch of the Russian Geographical Society.

During his scientific career, Professor Takhteev wrote over 200 scientific, popular science and educational-methodical publications; including seven personal and collective monographs, three popular science books, four textbooks. For the popularization of knowledge about the Nature of Lake Baikal, Vadim was awarded a Diploma of the Ministry of Natural Resources of the Russian Federation.

The scientific interests of Vadim Takhteev were taxonomy, ecology and evolution of amphipods and other endemic fauna of Lake Baikal. Also, he analyzed fauna and studied ecology of community in thermal and mineral springs, small mountain streams and alpine lakes of the Baikal region. Furthermore, he devoted a lot of time to the historiography of scientific research on Lake Baikal.

The main scientific achievement by Vadim Takhteev can be confidently considered a complete revision of Baikal amphipods. In his opinion, 7 families, 41 genera and 276 species, 78 sub-species are represented in Lake Baikal. These Baikalian species contribute 61% to the total diversity of Amphipoda of the of continental waters of Russia (Takhteev et al. 2015). From Baikal and its surroundings, he described 3 families, 1 subfamily, 2 genera, 2 subgenera, 34 species and subspecies of amphipods that are new for science.

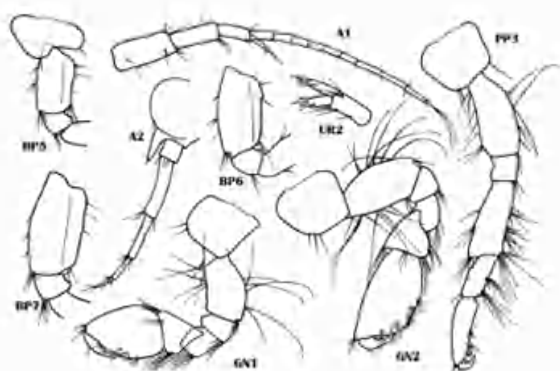


Pachyschysis vorax, female

Vadim Takhteev firstly substantiated and applied a typological approach to the systematization of Baikal amphipods. he studied the distribution of amphipod species according to biotopes; carried out a classification of their life forms, paying special attention to predators and scavengers (vulture amphipod).

One of the interesting moments was his discovery of a new species of amphipods, well adapted to living in conditions of strong currents and cold water in the region of the Khamar-Daban mountain range. This crustacean was named after these mountains - *Gammarus dabanus*. This was the first record in the Baikal region of gammarid living not in stagnant, but in fast-flowing waters.

Vadim Takhteev carried out a taxonomic revision of several separate genera - *Poekilogammarus*, *Plesiogammarus*, *Odontogammarus*. One of the species, *Echinogammarus borealis*, was described by Sovinsky (1915), but “lost” in the later works, was revised by V. Takhteev and synonymized with *Carinogammarus cinnamomeus* (Dybowsky).



Pachyschysis vorax, male

He tried to revise the most difficult and polymorphic genus of Baikal amphipods, *Eulimnogammarus*, applying the approaches of phenetic taxonomy. He also conducted detailed ecological studies of three coastal species from the genus *Eulimnogammarus* and two species from the genus *Pachyschysis*, inhabiting the marsupia of females and the gill cavities of males of large amphipods. For the latter genus, he confirmed the parasitic nature of the relation

with the hosts. He discovered a large taxonomic diversity within the genus *Pachyschesis*. Currently, this genus includes 16 species.

In his research, Vadim applied new methods. Together with an electronic engineer Sergey L. Arakelov from Applied Physics Institute ISU, a system for remote underwater video surveillance was designed (2013). This system was used to study the phenomenon of diel vertical migrations, to observe the distribution of animals and plant organisms at the lake floor as well as to describe the bottom landscapes and biocenoses. In the future, such video surveillance may become one of the methods for regular environmental monitoring of processes occurring in the coastal zone of Lake Baikal. Such video-observations are also suitable as one of the methods of regular environmental monitoring of processes occurring in the coastal zone of Lake Baikal.

Colleagues remember Vadim as a fascinating storyteller and an interesting interlocutor who delves deeply into the question. At the same time, in matters of Lake Baikal, he was extremely principled, firmly and consistently insisted on the dissemination of scientific knowledge and reliable information about its current ecological state of Lake Baikal.

Vadim was a good person, great scientist, wonderful teacher, worthy and reliable scientific leader, and the leading Baikalist of our time. He belongs to a constellation of world-class scientists.

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Andrade, L. F. & A. R. Senna 2019. Two new species of *Cephalophoxoides* Gurjanova, 1977 (Crustacea: Amphipoda: Phoxocephalidae) from southeastern Brazil, with comments on the taxonomic status of the genus. --- *Zootaxa* 4712, 531-551. <https://doi.org/10.11646/zootaxa.4712.4.3>. (Deals with *C. fortisetus* n. sp. (23°02'S, 43°00'W) and *C. obtusimanus* n. sp. (23°14'S, 44°03'W). A key to all *Cephalophoxoides* species is provided.)

Andrade, L. F. & A. R. Senna 2019. First record of the genus *Limnoporeia* Fearn-Wannan, 1968 (Crustacea: Amphipoda: Phoxocephalidae) from the Atlantic Ocean, with description of a new species. --- *Journal of Natural History* 53, 2517-1531. <https://doi.org/10.1080/00222933.2019.1705931> (*L. infirmichelata* n. sp., Rio de Janeiro State. With a key to all *Limnoporeia* species)

Andrade, L. F. & A. R. Senna 2020. A novel species of *Heterophoxus* Shoemaker, 1925 (Crustacea, Amphipoda, Phoxocephalidae) from southeast and southern Brazil, with an identification key to world species of the genus. --- *European Journal of Taxonomy* 592, 1-16. <https://doi.org/10.5852/ejt.2020.592>. (*H. shoemakeri* n. sp. from 23°25'S, 43°00'W, Rio de Janeiro State. With a key to all *Heterophoxus* species)

Andrade, L. F. & A. R. Senna 2020. Four new species of *Pseudharpinia* Schellenberg, 1931 (Crustacea: Amphipoda: Phoxocephalidae) from southwestern Atlantic and new records of *P. tupinamba* Senna & Souza-Filho, 2011. --- *Zootaxa* 4763, 501-537. <https://doi.org/10.11646/zootaxa.4763.4.3> (Deals with *P. bonhami* n. sp. (24°58'S, 45°26'W), *P. jonesyi* n. sp. (26°34'S, 47°59'W), *P. pagei* n. sp. (23°53'S, 42°28'W), *P. planti* n. sp. (23°03'S, 42°19'W) & *P. tupinamba*. A key to all *Pseudharpinia* is provided.)

Andrade, L. F. & A. R. Senna 2020. *Atlantiphoxus wajapi* n. gen., n. sp. (Crustacea: Amphipoda: Phoxocephalidae), a new deep-sea amphipod from the southwestern Atlantic. --- *Scientia Marina* 84(2), 1-12. <https://doi.org/10.3989/scimar.05001.16A> (Deals with *Atlantiphoxus wajapi* n. gen., n. sp. from 23°53'S, 42°28'W, 500m depth.. A table differentiates this genus from *Fuegiphoxus*, *Linca* and *Parharpinia*).

Andrade, L. F. & A. R. Senna 2020. New and additional records of *Metharpinia* Schellenberg, 1931 and *Microphoxus* Barnard, 1960 (Crustacea: Amphipoda: Phoxocephalidae) from Brazilian waters. --- *Papeis Avulsos de Zoologia* 60, e20206022. <https://doi.org/10.11606/1807-0205/2020.60.22>. (Deals with *Metharpinia dentiurosoma*, *M. grandirama*, *M. iada*, *Microphoxus cornutus* and *M. unoserratus*. With a discussion of the genus complex and key to all *Metharpinia* and *Microphoxus*)

Andrade, V. S., C. Wiegand, A. Pannard, A. M. Gagneten, M. Pédrot, M. Bouhnik-Le Cruz & C. Piscart 2020. How can interspecific interactions in freshwater benthic macroinvertebrates modify trace element availability from sediment? ---- *Chemosphere* 245, 125594 <https://doi.org/10.1016/j.chemosphere.2019.125594>

Angyal, D., E. M. Chavez-Solis, L. A. Lievano-Beltran, B. Magaña, N. Simoes & M. Mascaro 2020. New distribution records of subterranean crustaceans from cenotes in Yucatan (Mexico). --- *ZooKeys* 911, 21-49. <https://doi.org/10.3897/zookeys.911.47694> (i.a. *Mayaweckelia troglomorpha*, *M. cenoticola* and *Tuluweckelia cernua*.)

Arezoo, M. 2019. Studies on interstitial biological indicators (amphipods and isopods) in sandy beaches of Okinawa Island. --- *Thesis from the University of the Ryukyus* <http://hdl.handle.net/20.500.12000/44889> (Not seen)

Arfianti, T. & M. J. Costello 2020. Global biogeography of marine amphipod crustaceans: latitude, regionalization and beta diversity. ---- *Marine Ecology Progress Series* 630, 83-94 <https://doi.org/10.3354/meps13272>

Ariyama, H. 2019. Two species of *Ceradocus* collected from coastal waters in Japan, with description of a new species (Crustacea: Amphipoda, Maeridae). ---- *Zootaxa* 4658, 297-316. <http://dx.doi.org/10.11646/zootaxa.4658.2.5> (Deals with *C. kiiensis* n. sp. (Ena, Yura Town, Wakayama Pref.) and *C. laevis*. With a key to Japanese *Ceradocus*.)

Ariyama, H. 2020. Species of the *Maera*-clade from Japan. Part 3: genera *Maera* Leach, 1914, *Meximaera* Barnard, 1969 and *Orientomaera* Ariyama, 2018 (addendum), with a key to Japanese species of the clade (Crustacea: Amphipoda: Maeridae). ---- *Zootaxa* 4743, 451-479. <https://doi.org/10.11646/zootaxa.4743.4.1> (Deals with *Maera loveni*, *M. sagamiensis* n. sp. (Sagami Bay, Kanagawa pref.), *Meximaera mooreana*, and *Orientomaera incisa* n. sp. (Tagurazaki coast, Wakayama city, Wakayama pref.). Keys to all *Meximaera*, and to all Japanese species in the *Maera* clade, are provided.)

Ariyama, H. 2020. Six species of *Grandidierella* collected from the Ryukyu Archipelago in Japan, with descriptions of four new species. ---- *Zootaxa* 4816, 1-46. <https://doi.org/10.11646/zootaxa.4816.1.1> (Deals with *G. contigua* n. sp. (Jakushima Island, Kagoshima pref.), *G. gilesi*, *G. halophila*, , *G. japonicoides* n. sp. Amai-oshima Island, Kagoshima pref.), *G. nana* n. sp. (Iriomote Island, Okinawa pref.) and *G. pseudosakaensis* n. sp. Iriomote Island, Okinawa pref.). A key to male Ryukyu Islands *Grandidierella* is provided. The genus *Propejanice* is here considered a junior synonym of *Grandidierella*.)

Ariyama, H. & O. Hoshino 2019. A new superfamily, family, genus and species of marine amphipod, *Protodulichia scandens*, from Japan (Crustacea: Amphipoda: Senticaudata: Corophiida). ---- *Journal of Natural History* 53, 2467-2477. <https://doi.org/10.1080/00222933.2019.1704588> (A most intriguing new taxon with a special way of life, from Izu Oshima Island, Tokyo pref., Japan)

Artal, M. C., K. D. Pereira, A. D- Luchessi, V. K. Osaka, T. B. Henry, H-. Marques-Souza & G. de A. Umbuzeiro 2020. Transcriptome analysis in *Parhyale hawaiensis* reveal sex-specific responses to AgNP and AgCl exposure. ---- *Environmental Pollution* 269:113963 <https://doi.org/10.1016/j.envpol.2020.113963>

Arundell, K. L., A. Dubuffet, N. Wedell, J. Bojko, M. S. J. Rogers & A. M. Dunn 2019. *Podocotyle atomon* (Trematoda: Digenea) impacts reproductive behaviour, survival and physiology in *Gammarus zaddachi* (Amphipoda). ---- *Diseases of Aquatic Organisms* 136, 51-62. <https://doi.org/10.3354/dao03416>

Ashford, O. S., T. Horton, C. N., Roterman, M. H. Thurston, H. J. Griffiths & A. Brandt 2019. A new Southern Ocean species in the remarkable and rare amphipod family Podosiridae (Crustacea: Amphipoda) questions existing systematic hypotheses. ---- *Zoological Journal of the Linnean Society* XX, 1-16. <https://doi.org/10.1093/zoolinlean/zlz145> (Deals with *Acutocoxae ogilviae* Ashford & Thurston n. sp. (Southern Ocean 60° 72'S, 43°01'W, 1139m). The phylogenetic position of the family Podosiridae is extensively discussed from morphological and molecular data; it appears to have no close relations to Podoceridae or Eusiridae, but rather to the Stenothoidae. Further molecular research is necessary.)

Ashford, O. S., A. J. Kenny, C. R. S. Barrio Frojan, M. B. Bonsall, T. Horton, A. Brandt, G.J. Bird, S. Gerken & A. D. Rogers 2018. Phylogenetic and functional evidence suggests that deep-ocean ecosystems are highly sensitive to environmental change and direct human disturbance. ---- *Proceedings of the Royal Society B* 285, 20180923 <http://tx.doi.org/10.1098/rpsb.2018.0923>

Astakhov, M. V. 2019. Drift of invertebrates in two streams of Kunashir Island (Kuril Islands). ---- *Inland Water Biology* 12, 428-435 <https://doi.org/10.1134/S1995082919040035> (*Eogammarus kygi*)

Avila, C., C. Angulo-Preckler, R. P. Martin-Martin, B. Figuerola, H. J. Griffiths & C. L. Waller 2020. ---- Invasive marine species discovered on non-native kelp in the warmest Antarctic island. ---- *Scientific Reports* 10: 1639. <https://doi.org/10.1038/s41598-020-58561-y> (Deception Island)

Ayati, K., R. Hadjab, H. Khammar, S. Dhaouadi, C. Piscart & E. Mahmoudi 2019. Origin, diversity and distribution of freshwater epigean amphipods in Maghreb. ---- *Annales de Limnologie* 55, 13. <https://doi.org/10.1051/limn/2019012>

Axenov-Gribanov, D. V., D. S. Bedulina, Y. A. Shirokova, V. A. Emshanova, Y. A. Lubyaga, K. P. Vereshchagina, A. E. Saranchina, T. P. Pobeshimova & M. A. Timofeyev 2019. Diet influence on mechanisms of non-specific stress-response in Baikal endemic amphipod species during long-term laboratory exposure. ---- *Crustaceana* 92, 1349-1368. <https://doi.org/10.1163/15685403-00003951>

Azovsky, A. I. & V. N. Kokarev 2019. Stable but fragile: long-term dynamics of arctic benthic macrofauna in Baydaratskaya Bay (the Kara Sea). ---- *Polar Biology* 42, 1307-1322. <https://doi.org/10.1007/s00300-019-02519-y>

Babin, A., S. Motreull, M. Teixeira, A. Bauer, T. Tigaud, J. Moreau & Y. Moret 2020. Origin of the natural variation in the storage of dietary carotenoids in freshwater amphipod crustaceans. ---- *Plos One* 15(4), e0231247. <https://doi.org/10.1371/journal.pone.0231247> (*Gammarus fossarum*)

Bai, Y., D. Henry & D. Wlodkowic 2020. Chemosensory avoidance behaviors of marine amphipods *Allorchestes compressa* revealed using a millifluid perfusion technology. ---- *BiOMICROFLUIDS* 14: 014110 <https://doi.org/10.1063/1.5131187>

Bakalem, A., N. Hassam, Y. Oulmi, M. Martinez & J.-C. Dauvin 2019. Diversity and geographical distribution of soft-bottom macrobenthos in the Bay of Bou Ismail (Algeria, Mediterranean Sea). ---- *Regional Studies in Marine Science* 33, 100938, 20 pp <https://doi.org/10.1016/j.rsma.2019.100938> (Many amphipods listed on pp 9-11)

Barjadze, S., Z. Asanidze, A. Gavashelishvili & F. Soto-Adames 2019. The hypogean invertebrate fauna of Georgia (Caucasus). ---- *Zoology in the Middle East* 65, 1-10 <https://doi.org/10.1080/09397140.2018.1549789>

Barnes, R. S. K. 2020. Do different sympatric seagrasses support macrobenthic fauna of differing composition, abundance, biodiversity or patchiness? ---- *Marine Environmental Research* 160, 104983. <https://doi.org/10.1016/marenvres.2020.104983>

Barratt, B. I. P., J. M. Wing, O. J.-P. Ball, P. D. Johnstone & K. J. M. Dickinson 2019. The effect of fire on terrestrial amphipods (Crustacea: Amphipoda) in a natural grassland community. ---- *Pedobiologia* 77, 150590. <https://doi.org/10.1016/j.pedobi.2019.150590> (They are affected by their habitat being on fire)

Barrero-Oro, E., E. Moreira, M. A. Seefeldt, M. Valli Francione & M. L. Quartino 2020. The importance of macroalgae and associated amphipods in the selective benthic feeding of sister rockcod species *Notothenia rossii* and *N. coriiceps* (Nototheniidae) in West Antarctica. ---- *Polar Biology* 42, 317-334 <https://doi.org/10.1007/s00300-018-2424-0>

Bazterrica, M. C., P. J. Barón, G. Álvarez & S. M. Obenat 2020. Effects of *Ficopomatus enigmatus* ecosystem-engineered habitat structure on population parameters of the amphipod *Melita palmata*: a NIS-NIS interaction study. ---- *Marine Ecology* 41, 1-21 <https://doi.org/10.1111/maec.12587>

Beatty, C., K. L. Mathers, C. Patel, D. Constable & P. J. Wood 2020. Substrate mediated predator-prey interactions between invasive crayfish and indigenous and non-native amphipods. ----

Biological Invasions, in press. <https://doi.org/10.1007/s10530-020-02292-8> (*Gammarus pulex*, *G. tigrinus* & *Dikerogammarus villosus*)

Beermann, J., A. K. Hall-Mullen, C. Havermans, J. W. P. Coolen, R. P. M. A. Crooijmans, B. Dibbitts, C. Held & A. Desiderato 2020. Ancient globetrotters—connectivity and putative native ranges of two cosmopolitan biofouling amphipods. ---- *Peer Journal* 8, e9613 <https://doi.org/10.7717/peerj.9613> (Deals with *Jassa marmorata*, likely originally a NW Atlantic species, and *J. slatteryi*, probably stemming from the N. Pacific.)

Belal, A. A. M. 2019. Spatial and temporal changes in the population of macro-benthic invertebrates exposed to oil spillage in Suez Bay, Red Sea, Egypt. ---- *Egyptian Journal of Aquatic Research* 45(4), 353-358. <https://doi.org/10.1016/j.ejar.2019.12.001>

Bell, D., N. Bury, L. Woolnough, N. Corps, D. Mortimore & S. Gretton 2020. Use of X-ray micro-computed tomography to study the moult cycle of the freshwater amphipod *Gammarus pulex*. ---- *Zoology* 143, 125833 <https://doi.org/10.1016/j.zool.2020.125833>

Benitez, S., T. M. Iliffe, B. Quiroz-Martinez & F. Alvarez 2019. How is the anchialine fauna distributed within a cave? A study of the Ox Bel Ha system, Yucatan peninsula, Mexico. ---- *Subterranean Biology* 31, 15-28. <https://doi.org/10.3897/subtbiol.31.34347>

Berezina, N. A., K. K. Lehtonen & A. Ahvo 2019. Coupled application of antioxidant defense response and embryo development in amphipod crustaceans in the assessment of sediment toxicity. ---- *Environmental Toxicology* 38, 2020-2031. <https://doi.org/10.1002/etc.4516> (*Gmelinoides fasciatus*)

Berezina, N. A., V. B. Verbitsky, A. N. Sharov, E. N. Chernova, N. Yu. Meteleva & O. A. Malysheva 2020. Biomarkers in bivalve mollusks and amphipods for assessment of effects linked to cyanobacteria and Elodea: Mesocosm study. ---- *Ecotoxicology and Environmental Safety* 203: 110994 <https://doi.org/10.1016/j.ecoenv.2020.110994> (*Gmelinoides fasciatus*)

Berke, S. K., E. L. Keller, C. N. Needham & C. R. Salerno 2020. Grazer interactions with invasive *Agarophyton vermiculophyllum* (Rhodophyta): Comparisons to related versus unrelated native algae. ---- *Biological Bulletin* 238, in press <https://doi.org/10.1086/709108> (i.a. *Gammarus mucronatus* and *Ampithoe rubricata*)

Bezeng, B. S. & H. F. van der Broek 2019. DNA barcoding of southern African crustaceans reveals a mix of invasive species and potential cryptic diversity. ---- *Plos One* 14, e0222047. <https://doi.org/10.1371/journal.pone.0222047>

Biancani, L. M. 2019. Multi-locus phylogenetic analysis of Amphipoda indicates a single origin of the pelagic suborder Hyperiidea. — *PhD thesis, University of Maryland* <http://hdl.handle.net/1903/24888> (Not seen)

Blair, J. & K. Wilson 2019. *A developmental study of the marine crustacean "Parhyale Hawaiensis": the role of the marsupium in growth and survival*. ---- Undergraduate Scholarly Showcase, Tangeman University Center. (Not seen)

Blatnik, M., D. C. Culver, F. Gabrovsek, M. Knez, B. Kogovsek, J. Kogovsek, H. Liu, C. Mayaud, A. Mihevc, J. Muler, M. Naparus-Aljancuic, B. Otonicar, M. Petric, T. Pipan, M. Pretovsek, N. Ravbar, T. Shaw, T. Slabe, S. Sebela & N. Zupan Hajna 2020. *Changing perspectives in subterranean habitats*. ---- Chapter 10, pp 183-205 in M. Knez et al. (eds), *Karstology in the classical Karst*, Advances in karst science. Springer Nature Switzerland.

Blokhin, I. A. & T. A. Morozov 2020. (Amphipod communities (Amphipoda, Gammaridae) in soft soils of the Avacha Bay (South-eastern Kamchatka) in 2019. ---- ???????? (In Russian, 34 spp of amphipods listed)

Bojko, J. 2019. Amphipod disease: model systems, invasions and systematics - Introduction to DAO Special 8. ---- *Diseases of Aquatic Organisms* 136, 1-2. <https://doi.org/10.3354/dao03412>

Bojko, J. 2020. The mitochondrial genome of UK (non-native) *Dikerogammarus haemobaphes* (Amphipoda: Gammaridae) informs upon *Dikerogammarus* evolution, invasions and associated microparasites. ---- *Hydrobiologia* 847, 229-242. <https://doi.org/10.1007/s10750-019-04084-1>

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Bonaglia, S., U. Marzocchi, N. Ekeröth, V. Brüchert, S. Blomqvist & P. O. J. Hall 2019. Sulfide oxidation in deep Baltic Sea sediments upon oxygenation and colonization by macrofauna. ---- *Marine Biology* 116, 149. <https://doi.org/10.1007/s00227-019-3597-y> (*Monoporeia affinis* being one of the main colonisers)

Born-Torrijos, A., R. A. Paterson, G. S. van Beest, J. Schwelm, T. Vyhldalova, E. H. Henriksen, R. Knudsen, R. Kristoffersen, P.-A. Amundsen & M. Soldanova 2020. Temperature does not influence functional response of Amphipods consuming different trematode prey. ---- *Parasitology Research* (2020) <https://doi.org/10.1007/s00436-020-06859-1> (*Gammarus lacustris*)

Brakovska, A. & J. Paidere 2019. Protocol optimization for genomic DNA extraction and RAPD-PCR of alien Ponto-Caspian amphipod *Pontogammarus robustoides*. ---- *Acta Biologica Universitatis Daugavpiliensis* 19, 209-217.

Brandt, A., I. Alalykova, S. Brix, N. Brenke, M. Blažewicz, O. A. Golovan, N. Johannsen, A. M. Hrinko, A. M. Jazdzewska, K. Jeskulke, G. M. Mamenev, A. V. Levrenteva, M. V. Malyutina, T.

Riehl & L. Lins 2019. Depth zonation of Northwest Pacific deep-sea macrofauna. ---- *Progress in Oceanography* 176, 102131. <https://doi.org/10.1016/j.pocean.2019.102131>

Bregović, P., C. Fišer & M. Zgmajster 2019. Contribution of rare and common species to subterranean species richness patterns. — *Ecology and Evolution* 9, 11606-11618. <https://doi.org/10.1002/ece3.5604> (145 amphipod species in the dataset)

Brown, J. 2019. Trans-generational responses of gammarid amphipods to salinity change: energy budgets and life history traits. — *PhD thesis from University of Bangor*. [https://research.bangor.ac.uk/portal/en/theses/transgenerational-responses-of-gammarid-amphipods-to-salinity-change-energy-budgets-and-life-history-traits\(9d92bb68-8cf7-4c97-9c58-659971c1bd17\).html](https://research.bangor.ac.uk/portal/en/theses/transgenerational-responses-of-gammarid-amphipods-to-salinity-change-energy-budgets-and-life-history-traits(9d92bb68-8cf7-4c97-9c58-659971c1bd17).html)

Brown, T. L. 2020. *The causes and costs of intersexuality in two freshwater populations of the amphipod, Gammarus minus, found in Montgomery County, Virginia, USA*. ---- D. Phil. Thesis, Ohio State University (Not seen)

Brun, A. A., M. Griotti, S. A. Roig-Juñent & M. E. Ache 2020. Biogeographical patterns and areas of endemism for the Magellan region based on the distribution of crustacean species (Amphipoda, Copepoda, and Euphausiacea). — *Polar Biology*, in press <https://doi.org/10.1007/s00300-020-02626-1>

Brunanski, M., M. Matouskova, R. Jasinska, J. Nebesarova & L. G. Poddubnaya 2019. Heteromorphism of sperm axonemes in a parasitic flatworm, progenetic *Diplocotyle oltikii* Krabbe, 1874 (Cestoda, Spathebothriidea). ---- *Parasitology Research*, in press <https://doi.org/10.1007/s00436-019-06524-2> . (A parasite of *Gammarus oceanicus*)

Bruschetti, M. 2019. Role of reef-building, ecosystem engineering polychaetes in shallow water ecosystems. ---- *Diversity* 11, 168. <https://doi.org/10.3390/d11090168>

Bueno, A. A. de P., K. M. Oliveira & G. Wellborn 2019. A new species of *Hyaella* Smith, 1874 (Crustacea: Amphipoda: Hyaellidae) from Oklahoma, USA. ---- *Zootaxa* 4700, 259-269. <https://doi.org/10.11646/zootaxa.4700.2.5> (*H. cheyennis* n. sp. from Connerville, Oklahoma, USA)

Bueno, M. & F. F. P. Leite 2019. Age and life style affect macroalgae colonization by amphipods in shallow marine environments. ---- *Journal of Experimental Marine Biology and Ecology* 514-515, 59-66 <https://doi.org/10.1016/j.jembe.2019.03.013> (A Brazilian study)

Bunke, M., J. T. A. Dick, M. J. Hatcher & A. M. Dunn 2019. Parasites influence cannibalistic and predatory interactions within and between native and invasive amphipods. ---- *Diseases of Aquatic Organisms* 136, 79-86. <https://doi.org/10.3354/dao03415>

Buršić, M., L. Iveša, A. Jaklin & M. Arko Pijevac 2019. A preliminary study on the diversity of invertebrates associated with *Corallina officinalis* Linnaeus in southern Istrian peninsula. ---- *Acta Adriatica* 60, 127-136. <https://doi.org/10.32582/aa.60.2.2>

Bylak, A., W. Rak, M. Wójcik, E. Kukula & K. Kukula 2019. Analysis of microbenthic communities in a post-mining sulphur pit lake (Poland). ---- *Mine Water and the Environment* 38, 536-550. <https://doi.org/10.1007/s10230-019-00624-2> (*Chelicorophium curvispinum*)

Campbell, H., J. Ledet, A. Poore, J. Harianto & M. Byrne 2020. Resilience of the amphipod *Hyale niger* and its algal host *Sargassum linearifolium* to heatwave conditions. ---- *Marine Biology* 167: 72. <https://doi.org/10.1007/s00227-020-03681-2> (Both amphipod and host can survive a broad range of temperatures)

Cannizaro, A. G., D. Balding, E. A. Lazo-Wasem & T. R. Sawicki 2019. A redescription of Hobbs' cave amphipod *Crangonyx hobbsi* Shoemaker, 1941 (Amphipoda: Senticaudata, Crangonyctidae), including genetic sequence data for mitochondrial and nuclear genes and notes on the ecology. ---- *Proceedings of the Biological Society of Washington* 132, 73-95. <https://doi.org/10.2988/19-00004>

Cannizaro, A. G., D. Balding, E. A. Lazo-Wasem & T. R. Sawicki 2020. A new species rises from beneath Florida: molecular phylogenetic analyses reveal cryptic diversity among the metapopulation of *Crangonyx hobbsi* Shoemaker, 1941 (Amphipoda: Crangonyctidae). ---- *Organisms, Diversity & Evolution* 20, 387-404 <https://doi.org/10.1007/s13127-020-00433-4> (*Crangonyx parhobbsi* Cannizaro & Sawicki n. sp. from Madison County, Florida.)

Cannizaro, A. G., J. R. Gibson & T. R. Sawicki 2020. A new enigmatic genus of subterranean amphipod (Amphipoda: Bogidielloidea) from Terrell County, Texas, with the establishment of Parabogidiellidae, fam. nov., and notes on the family Bogidiellidae. ---- *Invertebrate Systematics* 34, 504-518. <https://doi.org/10.1071/IS19061> (Not seen, sadly. Deals with *Simplexia longicornis* n. gen, n. sp. (Terrell Co., Texas), that together with the sympatric *Parabogidiella americana*, is placed in the new family Parabogidiellidae.)

Cannizaro, A. G. & T. R. Sawicki 2019. Two new species of the genus *Crangonyx* Bate, 1859 (Amphipoda, Crangonyctidae) from the St. Marks River Basin with notes on the “*Crangonyx floridanus* complex”. ---- *Zootaxa* 4691, 301-332. <https://doi.org/10.11646/zootaxa.4691.4.1> (*Crangonyx ephemerus* and *C. pseudoephemerus* described (Florida, USA) using morphological and molecular methods (16S, 18S, 28S and COI).)

Castaño-Sanchez, A., G. C. Hose & A. S. P. S. Reboleira 2020. Salinity and temperature increase impact groundwater crustaceans. ---- *Scientific Reports* 10, 12328. <https://doi.org/10.1038/s41598-020-69050-7>

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Guerra-Garcia, J. M. & S. T. Ahyong 2020. A new genus and two new species of Caprellidae (Crustacea: Amphipoda) from mesophotic and deep-sea waters of Australia. ---- *Records of the Australian Museum* 72, 45-62. <https://doi.org/10.3853/j.2201-4349.72.2020.1764> (Deals with *Pseudoliropus keablei* n. gen., n. sp. Arafura Sea, NT, Austr., and *Pseudoprotella australiensis* n. sp. (Broken Bay, NSW))

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Gurkov, A., L. Rivarola-Duarte, D. Bedulina, I. Fernandez Casas, H. Michael, P. Drozdova, A. Nazarova, E. Govorukhina, M. Timofeev, P. T. Stadler & T. Luckenbach 2019. Indication of ongoing amphipod speciation in Lake Baikal by genetic structures within endemic species. ---- *BMC Evolutionary Biology* 19: 138. <https://doi.org/10.1186/s12862-019-1470-8> (*Eulimnogammarus verrucosus*, *E. cyaneus* and *E. vittatus*, compared to *Gammarus lacustris*)

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[zookeys.886.38511](#) (Deals with *Exiliphotis petila* n. gen., n. sp. (Daegwantal Island, Jeju-do), *Latigammaropsis careocavata* n. sp. (Sogyeulbi-do Island, Gyeongsangnam), *Photis bronco* n. sp. (Daryeo-do Island, Jeju-do), *Ph. longicaudata* (European material), *Ph. longicarpus* n. sp. (Geomeunyeo, Jeju-do Island), *Ph. posterolobus* n. sp. (Geomeunyeo, Jeju-do Island), *Podoceropsis insinuomanus* n. sp. (Gageo-do Island, Jeju-do), and *P. pseudoclavipes* n. sp. (Bigin-do Island, Gyeongsangnam-do). A key to Korean Photidae is provided)

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Lörz, A.-N., S. Brix, A. M. Jazdzewska & L. E. Hughes 2020. Diversity and distribution of North Atlantic Lepechinellidae (Amphipoda: Crustacea). ---- *Zoological Journal of the Linnean Society*, zlaa024. , <https://doi.org/10.1093/zoolinnean/zlaa024> (This is an extensive revision. Descriptions and illustrations of *L. arctica* (of which *L. norvegica* is considered to be a junior synonym) and *L. victoriae*, and in toto figures of all *Lepechinella* species, as well as distribution maps.)

Lourenco, R. A., C. A. Magalhães, S. Taniguchi, S. G. L. Siqueira, G. B. Jacobucci, F. P. P. Leite & M. C. Bicego 2019. Evaluation of macroalgae and amphipods as bioindicators of petroleum hydrocarbons input into the marine environment. ---- *Marine Pollution Bulletin* 145, 564-568. <https://doi.org/10.1016/j.marpolbul.2019.05.052>

Love, A. C., N. Crooks & A. T. Ford 2020. The effect of wastewater effluent on multiple behaviours in the amphipod, *Gammarus pulex*. ---- *Environmental Pollution* 267: 115386 <https://doi.org/10.1016/j.envpol.2020.115386>

Lowry, J. K. & A. A. Myers 2019. *Talitrus saltator* (Montagu, 1808), a species complex (Amphipoda, Senticaudata, Talitroidea, Talitridae). ---- *Zootaxa* 4664, 451-480. <http://dx.doi.org/10.11646/zootaxa.4664.4.1> (Deals with *T. saltator* s. str., *T. cloqueti* (Audouin, 1826) (neotype from Crete), and *T. platycheles* Guérin, 1832 from the western Mediterranean. The latter two taxa are revived.)

Lowry, J. K. & A. A. Myers 2020. *Clippertonia* gen nov., sp. nov., a new Talitrid amphipod from bird nests on Clipperton Island in the tropical eastern Pacific Ocean (Amphipoda, Senticaudata, Talitroidea, Talitridae). ---- *The Montenegrin Academy of Sciences and Arts Proceedings of the Section of Natural Sciences* 23, 183-189. <https://canupub.me/Docs/2019/689-GI-OPN-23/Glasnik%20OPN%2023%20-%2007.%20I.%20K.%20Lowry%20C%20A.%20A.%20Myers.pdf> (*Clippertonia schmitti* from Clipperton Island bird (boobies) nests)

Lowry, J. K., A. A. Myers & J. Perez-Schultheiss 2020. *Gondwanorchestia tristanensis* gen. nov. sp. nov., a new southern Hemisphere genus and species of talitrid amphipod (Amphipoda, Senticaudata, Talitridae). ---- *Zootaxa* 4748, 375-381. <https://doi.org/10.11646/zootaxa.4748.2.9>

Lowry, J. K. & R. T. Springthorpe 2019. Talitrid amphipods from India, East Africa and the Red Sea (Amphipoda, Senticaudata, Talitroidea, Talitridae). ---- *Zootaxa* 4638, 351-378. <http://dx.doi.org/10.11646/zootaxa.4638.3.3> (Deals with *Austropacifica* n. gen. –type *Orchestia monospina*, further species *A. australis*, *A. pectenispina* and *A. serejoae*; a key to the species is provided. *Gazia* n. gen., type *Gazia gazi* n. sp. (Gazi beach, Kenya), further species *G. ancheidos*, *G. guadalupensis*, *G. itampolo* and *G. samroiyodensis*; a key is provided. *Talorchestia* here has 18 species, among which *T. affinis* is redescribed, with *T. franchetti* and the ‘*T. martensi*’ of many authors as synonyms, *T. anakao* n. sp. comes from Nosy Vé, Madagascar, while the ‘*T. martensi*’ from India of Chilton has to remain *T. spec.* for the time being. A key to adult male *Talorchestia* is included. Table 1 lists all talitrids known from the Indo West Pacific, and figs 1-5 map their distribution.)

Lowry, J. K., R. T. Springthorpe & A. A. Myers 2020. *Carpentaria* gen. nov., a new talitrid genus from tropical Australia (Amphipoda, Senticaudata, Talitroidea, Protorchestiidae). ---- *Zootaxa* 4834, 425-433. <https://doi.org/10.11646/zootaxa.4834.3.5> (*Carpentaria* n. gen. with type species *C. tropicalis* n. sp. (Darwin, NT, mangroves) and further species *C. limicola*, transferred from *Floresorchestia*. Both are fully described and illustrated here,)

Lubinevsky, H., B. Herut & M. Tom 2019. Monitoring long-term spatial and temporal trends of the infaunal community characteristics along the shallow waters of the Mediterranean coast of Israel. ---- *Environmental Monitoring and Assessment* (2019) 191: 724 <https://doi.org/10.1007/s10661-019-7872-7>

Lubyaga, Y., M. Trifonova, P. Drozdova, A. Gurkov, E. Madyarova, D. Axenov-Gribanov, E. Kurashov, K. Vereshchagina, Z. Shatilina & M. Timofeev 2020. Invader amphipods *Gmelinoides fasciatus* (Stebbing, 1899) inhabiting distant waterbodies demonstrate differences in tolerance and energy metabolism under elevated temperatures. ---- *Journal of Great Lakes Research* 46, 881-890. <https://doi.org/10.1016/j.jglr.2020.05-011>

Lutz, M. L., T. E. Minchinton & A. R. Davis 2019. Differences in architecture between native and non-indigenous macroalgae influence associations with epifauna. ---- *Journal of Experimental Marine Biology and Ecology* 514-515, 76-86. <https://doi.org/10.1016/j.jembe.2019.03.006>

Lynn, D. H. & M. C. Strüder-Kypke 2019. The sanguicolous apostome *Metacollinia luciensis* Jankowski 1980 (Collinidae, Apostomatia, Ciliophora) is not closely related to other sanguicolous apostomes. ---- *Journal of Eukaryotic Microbiology* 66, 140-146 <https://doi.org/10.1111/jeu.12638> (from *Orchestia gammarellus*)

Mah, C. L. 2020. New species, occurrence records and observations of predation by deep-sea Asteroidea (*Echinodermata*) from the North Atlantic by NOAA ship *Okeanos Explorer*. ----

Zootaxa 4766, 201-260. <https://doi.org/10.11646/zootaxa.4766.2.1> (p. 228 and fig. 12 show the presence of an associated amphipod (not identified, but purple) on *Gilbertaster caribaea*.)

Major, K. M., D. P. Weston, M. J. Lydy, K. E. Huff Hartz, G. A. Wellborn, A. R. Manny & H. C. Poynton 2019. The G119S *ace-1* mutation confers adaptive organophosphate resistance in a nontarget amphipod. — *Evolutionary Applications* 13, 620-635. <https://doi.org/10.1111/eva.12888> (*Hyalella azteca*)

Makarenko, A. L. 2019. (Features of the propagation of alien species of amphipods (Crustacea, Amphipoda) in the condition of watercourses in Belarus). ---- *Главная (Glavnaya)* 64 (1), 72-81. <https://doi.org/10.29235/1029-8940-2019-64-1-72-81> (In Russian. 6 alien species studied in Belarus)

Mamaghani-Shishvan, M. & S. Esmaeili-Rineh 2019. Two new species of groundwater amphipods of the genus *Niphargus* Schiödt, 1849 from northwestern Iran. ---- *European Journal of Taxonomy* 546, 1-23. <https://doi.org/10.5852/ejt.2019.546> (Deals with *N. urmiensis* n. sp. (Oshnavieh City, West Azerbaijan Prov.) and *N. fiseri* n. sp. (Piranshahr City, West Azerbaijan Prov.).)

Marin, I. N. 2019. Crustacean “cave fishes” from the Arabika karst massif (Abkhazia, Western Caucasus): new species of stygobiotic crustacean genera *Xiphocaridinella* and *Niphargus* from the Gegskaya Cave and adjacent area. ---- *Arthropoda Selecta* 28, 225-245. <https://doi.org/10.15298/arthscl.28.2.05> (*Niphargus gegi* n. sp. from Gegskaya cave, Gegri region; Abkhazia)

Marin, I. & T. Antokhina 2020. Hidden burrow associates: macrosymbiotic assemblages of subtidal deep-burrowing invertebrates in the northern part of the Sea of Japan. ---- *Marine Biodiversity* 50: 50 <https://doi.org/10.1007/s12526-020-01065-9> (Figure 1 has a picture of a *Liljeborgia* found with *Urechis*)

Marin, I. & D. Palatov 2019. An occasional record of the amplexus in epigeal *Niphargus* (Amphipoda: Niphargidae) from the Russian Western Caucasus. ---- *Zootaxa* 4701, 97-100. <http://dx.doi.org/10.11646/zootaxa.4701.1.8> (*Niphargus* cf *magnus*)

Marin, I. & D. Palatov 2019. A new species of the genus *Niphargus* (Crustacea: Amphipoda: Niphargidae) from the south-western part of the North Caucasus. ---- *Zoology of the Middle East* 65, 336-346. <https://doi.org/10.1080/09397140.2019.1663907> (*N. ciscaucasicus* n. sp. from Apsheron, Krasnodar region).

Marin, I. & D. M. Palatov 2020. A new species of freshwater amphipod Gammarus (Amphipoda: Gammaridae) from Tajikistan (Pamir Mountains). ---- *Arthropoda Selecta* 29, 199-209. <https://doi.org/10.15298/arthscl.29.2.04> (*G. martynovi* n. sp., in the *lacustris* group.)

Marques-Junior, P. R. & A. R. Senna 2020. Description of a new genus and species of the family Melphidippidae Stebbing, 1899 (Crustacea: Amphipoda) from the deep waters of Brazil. ---- *Zootaxa* 3641, 463-475. <http://dx.doi.org/10-11646/zootaxa.3641.4.11> (*Stebbingiella globulosa* n. gen., n. sp. From off Sao Paulo state, 224m)

Marron-Becerra, A., M. Hermoso-Salazar & G. Rivas 2020. A new species of the genus *Hyaella* (Crustacea, Amphipoda) from northern Mexico. ---- *ZooKeys* 941, 1-19 <https://doi.org/10.3897/zookeys.942.50399> (*H. tepehuana* n. sp. from Durango State.)

Masikane, N. F., B. K. Newman & U. M. Scharler 2019. *Grandidierella lignorum* (Amphipoda: Aoridae) can be used for assessing the toxicity of sediment with varying grain sizes and low organic content. ---- *African Journal of Aquatic Science* 44, 163-170. <https://doi.org/10.2989/16085914.2019.1608152>

Mauro, F. da M., P. S do Nascimento & C. S. Serejo 2020. New discoveries for the subfamily Phtisicinae Vassilenko, 1968 (Crustacea: Senticaudata) from the Brazilian coast. ---- *European Journal of Taxonomy* 597, 1-17. <https://doi.org/10.5852/ejt.2020.597> (Deals with *Hemiproto wigleyi* and *Phtisica marina*, with *Ph. verae* Quitete as a junior synonym).

Mekhanikova, I. V. 2019. (A rare abyssal Baikal amphipod, *Polyacantha calceolata* (Crustacea, Amphipoda) at the St Petersburg cold methane seep, central Baikal.) ---- *Zoologicheskoy Zhurnal* 98, 1003-1018. (In Russian. Much information on this previously very rarely collected deep water species.)

Michel, L. N., F. L. Nyssen, P. Dauby, & M. Verheye 2020. Can mandible morphology help predict feeding habits in Antarctic amphipods? ---- *Antarctic Science*, in press <https://doi.org/10.1017/S0954102020000395> (It is of some help, but not enough in itself)

Monroy-Velázquez, L. V., R. E. Rodríguez-Martínez, B.I. van Tussenbroek, T. Aguiar, V. Solís-Weiss & P. Briones-Fourzán 2019. Motile macrofauna associated with pelagic *Sargassum* in a Mexican reef lagoon. ---- *Journal of Environmental Management* 252, 109650. <https://doi.org/10.1016/j.jenvman.2019.109650> (*Ampelisca* sp., *Hyale* sp., *Nototropis minikoi* and *Sunamphitoe pelagica* the amphipods found)

Morino, H. 2019. List of amphipod type specimens relocated in the collection of the National Museum of Nature and Science, Tsukuba, Japan. ---- *Bulletin of the National Museum of Natural Sciences, Ser. A* 45 (2), 39-43.

Morino, H. 2020. Description of *Aokiorcheestia jajima*, a new genus and species from coastal forests in southern Japan (Crustacea: Amphipoda: Talitridae). ---- *The Montenegrin Academy of Sciences and Arts Proceedings of the Section of Natural Sciences* 23, 191-208. <https://canupub.me/Docs/2019/689-GI-OPN-23/Glasnik%20OPN%2023%20-%2008.%20Hiroshi%20Morino.pdf>

(*Aokiorchestia jajima* is used in the taxonomic description in the paper. There seems to be a misspelling in the title. From Tokara Channel)

Morino, H. 2020. The description of two new genera and four new species of the terrestrial Talitridae (Crustacea, Amphipoda) from the Ogasawara and Daito Islands, Southern Japan. ---- *Bulletin of the National Museum of Natural Sciences, Ser. A* 46, 1-23. (Deals with *Miyamotoia spinolabrum* n. gen., n. sp. (Hahajima Isl., Ogasawara), *M. daitoensis* n. sp. (Minam-Daitojima Isl., Okinawa), *Leptorchestia biseta* n. gen., n. sp. Ototojima Isl., Ogasawara, *Morinoia chichijimaensis* n. sp. (Chichima Isl., Ogasawara) and *M. japonica*. A key to all Talitridae from these islands is provided)

Mosbahi, N., L. Boudaya, L. Neifar & J.-C. Dauvin 2020. Do intertidal *Zostera noltei* meadows represent a favourable habitat for amphipods? The case of Kneiss Islands (Gulf of Gabès: Central Mediterranean Sea). ---- *Marine Ecology* 41, in press. <https://doi.org/10.1111/maec.12589> (yes)

Moskalenko, V. N., T. V. Neretina & L. Y. Yampolsky 2020. To the origin of Lake Baikal endemic gammarid radiations, with description of two new *Eulimnogammarus* spp. ---- *Zootaxa* 4766, 457-471. <https://doi.org/10.11646/zootaxa.4766.3.5> (A most interesting paper. The new species are *Eulimnogammarus etingovae* n. sp. (S. Baikal, near Kultuk) and *E. tchernykhii* n. sp. (Pescherk Bay, Baikal). These species are very sparsely illustrated.)

Myers, A. A. & J. K. Lowry 2020. A phylogeny and classification of the Talitridea (Amphipoda, Senticaudata) based on interpretation of morphological synapomorphies and homoplasies. ---- *Zootaxa* 4778, 281-310. <https://doi.org/10.11646/zootaxa.4778.2.3> (An extensive revision, resulting in the erection of many new taxa. These are not listed here, but are presented in the taxonomical listing in this newsletter.)

Myers, A. A. & J. K. Lowry 2020. A revision of the genus *Orchestia* Leach, 1814 with the reinstatement of *O. inaequalipes* (K. H. Barnard, 1951), the designation of a neotype for *Orchestia gammarellus* (Pallas, 1776) and the description of three new species (Crustacea: Amphipoda, Talitridae, Talitrinae). ---- *Zootaxa* 4808, 201-250 <https://doi.org/10.11646/zootaxa.4808.2.1> (This thorough revision deals with *O. gammarellus*, *O. forchuensis* n. sp. (Cape Fourchou, Yearmouth Co., Nova Scotia; occurs also on Iceland), *O. xylinu*, *O. montagui*, *O. aestuarensis*, *O. magnifica*, *O. mediterranea*, *O. inaequalipes* (revived), *O. perezii* n. sp. Concon, Valparaíso region, Chile) and *O. tabladoi* n. sp. (Golfo de San Mathias, Argentina).)

Nair, K. K. C., K. V. Jayalakshmy & K. K. Naveen Kumar 2020 Generation studies on benthic amphipod---*Quadrivisio bengalensis* (Gammaridae) from the Kochin Estuary, Southwest coast of India. ---- *Environmental Monitoring and Assessment* 192:68 <https://doi.org/10.1007/s110661-019-7962-6>

Nair, P. 2019. *Ecophysiology and food web dynamics of spring ecotone communities in the Edwards Aquifer, USA*. ---- PhD Thesis, Texas State University <https://digital.library.txstate.edu/handle/10877/8386> (Not seen)

Nakamura, Y., R. Minemizu & N. Saito 2019. “Rhizarian rider”—symbiosis between *Phronimopsis spinifera* Claus, 1879 (Amphipoda) and *Aulosphaera* sp. (Phaeodaria). ---- *Marine Biodiversity* 49, 2193-2195. <https://doi.org/10.1007/s12526-019-01002-5>

Nakano, T. & J. K. Lowry 2019. The correct authorship of the amphipod genus-group name *Quasimodia* (Senticaudata: Hyaloidea: Phliantidae). ---- *Zootaxa* 4671, 449-450. <http://dx.doi.org/10.11646/zootaxa.4671.3.12> (The correct author name, acc. to the authors, is Barnard, 1969.)

Navarro-Barranco, C., A. Irazabal & J. Moreira 2020. Demersal amphipod migrations: spatial patterns in shallow marine waters. ---- *Journal of the Marine Biological Association UK* 100, 239-249. <https://doi.org/10.1017/S002531542000003X>

Neuparth, T., A. I. Lopez, N. Alves, J. M. A. Oliveira & M. M. Santos 2019. Does the antidepressant sertraline show chronic effects on aquatic invertebrates at environmentally relevant concentrations? A case study with the keystone amphipod, *Gammarus locusta*. ---- *Ecotoxicology and Environmental Safety* 183, 109486. <https://doi.org/10.1016/j.ecoenv.2019.109486>

Neuparth, T., A. M. Machado, R. Montes, R. Rodil, S. Barros, N. Alves, R. Ruivo, L. F. C. Castro, J. B. Quintana & M. M. Santos 2020. Transgenerational inheritance of Chemical-induced signature: A case study with simvastatin. ---- *Environment International* 144, 106020 <https://doi.org/10.1016/j.envint.2020.106020> (*Gammarus locusta*)

Ntakakis, A., I. Karaouzas, C. Fiser & F. Stoch 2020. An annotated checklist of the Niphargidae (Crustacea: Amphipoda) of Greece. ---- *Zootaxa* 4772, 517-544. <https://doi.org/10.11646/zootaxa.4772.3.5> (All you want to know about *Niphargus* in Greece)

Nurshazwan, J., A. B. Ahmad-Zaki & B. A. R.- Azman 2020. A new species of *Cerapus* (Amphipoda: Senticaudata: Ischyroceridae) from Pulau Bum Bum, Sabah, Malaysia, with an identification key to *Cerapus* species. ---- *Zootaxa* 4802, 519-533. <https://doi.org/10.11646/zootaxa.4802.3.7> (*C. bumbumiensis* n. sp. from Pulau Bum Bum, Sabah. A key to male world *Cerapus* is provided.)

Othaitz, J. P. & J.-C. Sorbe 2020. *Eusirus bonnieri* sp. nov. (Crustacea: Amphipoda: Eusiridae), a new deep water species from the southeastern Bay of Biscay (NE Atlantic Ocean). ---- *Zootaxa* 4751, 238-256. <https://doi.org/10.11646/zootaxa.4751.2> (*E. bonnieri* n. sp. from Capbreton Canyon, Biscaya. With a key to all *Eusirus* species.)

Özbek, M. & M. O. Güloğlu 2019. A second new amphipod species from the Peynirlikönü Cave (EGMA Cave): *Gammarus egmao* sp. nov. (Crustacea: Amphipoda). ---- *Ege Journal of Fisheries and Aquatic Sciences* 36, 201-210. <https://doi.org/10.12714/egejfas.2019.36.3.01>

Özbek, M. & B. Sket 2020. A new *Rhipidogammarus* (Crustacea: Amphipoda) species from Turkey: First record of the genus from the eastern Mediterranean region, with an identification key for the genus. ---- *The Montenegrin Academy of Sciences and Arts Proceedings of the Section of Natural Sciences* 23, 83-98. <https://canupub.me/Docs/2019/689-GI-OPN-23/Glasnik%20OPN%2023%20-%202002.%20Murat%20O%CC%88zbek%2C%20Boris%20Sket.pdf> (*Rhipidogammarus gordankaramani* sp.n from Antalya Province, Turkey)

Özbek, M. & E. Ulutürk 2019. (Population structure of *Gammarus izmirensis* (Amphipoda) inhabiting Yigitler Brook (Nif Stream, Izmir)). ---- *Ege Journal of Fisheries and Aquatic Sciences* 36, 101-107 <https://doi.org/10.12714/egcjfas.2019.36.2.01> (In Turkish.)

Ozgen., O., S. Acik & K. Bakir 2019. First records of six species of crustaceans for the eastern Mediterranean Sea. ---- *Crustaceana* 92, 1403-1414. <https://doi.org/10.1163/15685403-00003953> (Not seen.. i.a. *Caprella tuberculata*, *Eriopisella ruffoi* and *Iphimedia vicina*, from the Aegean coast of Turkey.)

Pacioglu, O., S.-A. Strungaru, N. Ianovici, M. N. Filimon, A. Sinitean, G. Iacob, H. Barabas, A. Acs, H. Muntean, G. Plăvan, R. Schulz, J. P. Zubrod & L. Pârvulescu 2020. Ecophysiological and life history adaptations of *Gammarus balcanicus* (Schäferna, 1922) in a sinking-cave stream from Western Carpathians (Romania). ---- *Zoology* 139, 125754. <https://doi.org/10.1016/j.zool.2020.125754>

Paganelli, D., A. Pandolfi, R. Sconfietti & A. Marchini 2019. Spatial distribution and substrate preferences of the non-indigenous amphipod *Gammarus roeselii* Gervais 1835. ---- *Marine & Freshwater Research* 71, 723-728. <https://doi.org/10.1071/MF19193>

Paidere, J., A. Brakovska, V. Vezhnavets, A. Škute & M. Savicka 2019. Effects of the environmental variables on the alien amphipod *Pontogammarus robustoides* in the Daugava River and its reservoirs. ---- *Acta Biologica Universitatis Daugavpiliensis* 19, 169-180. (A Latvian study)

Pala, A. 2019. The effect of a glyphosate-based herbicide on acetylcholinesterase (AChE) activity, oxidative stress, and antioxidant status in freshwater amphipod: *Gammarus pulex* (Crustacea). ---- *Environmental Science and Pollution Research* 26, 36869-36877. <https://doi.org/10.1007/s11356-019-06804-5>

Pale, A., M. Ince & A. Önal 2019. Modeling approach with box-behnken design for optimization of Pb bioaccumulation parameters in *Gammarus pulex* (L., 1758). ---- *Atomic Spectroscopy* 40 (3), 7 pp

Pascual, R., A. Nebra, J. Goma, C. Pedrocchi, O. Cadiach, G. Garcia & J. Solé 2020. First data on the biological richness of Mediterranean springs. ---- *Limnetica* 38, 121-139. <https://doi.org/10.23818/limn.39.09> (Data from two areas in Spain)

Passarelli, M. C., D. M. S. Abessa & A. Cesar 2019. Sensitivities of two tropical epibenthic amphipods to physical chemical variables and reference toxicants. ---- *Ecotoxicology and Environmental Contamination* 14, 27-33 <http://dx.doi.org/10.5132/eec.2019.01.03> (*Hyale nigra* and *H. youngi*)

Pawlak, J., K. Nadolna-Altyn, B. Szostkowska & M. Pachur 2019. First evidence of the presence of *Anisakis simplex* in *Crangon crangon* and *Contracaecum osculatum* in *Gammarus* sp. by *in situ* examination of the stomach contents of cod (*Gadus morhua*) from the southern Baltic Sea. ---- *Parasitology* 146, 1699-1706. <https://doi.org/10.1017/S0031182019001124>

Peart, R. A., K. Spong, J. Sutherland & M. Kelly 2019. A new species of Sponge-dwelling amphipod, *Polycheria spongoteris* sp. nov., from Spirits Bay, Northland, New Zealand. ---- *Zootaxa* 4674, 127-141. <http://dx.doi.org/10.11646/zootaxa.4674.1.7> (A table compares NZ species of *Polycheria*)

Peart, R. A., C. M. C. Woods, J. E. Sutherland & S. L. Cox. 2019. Confirmation of *Caprella scauroides* Mayer, 1903 (Crustacea: Amphipoda) from New Zealand, using integrative techniques. ---- *Zootaxa* 4686, 361-375. <https://doi.org/10.11646/zootaxa.4686.3.3>

Peng, G., R. Bellerby, F. Zhang, X. Sun & D. Li 2019. The ocean's ultimate trash can: Hadal trenches as major depositories for plastic pollution. ---- *Water Research* 168: 11 5121. <https://doi.org/10.1016/j.watres.2019.115121>

Peralta, M. A. & A. V. I. Miranda 2019. A new species of *Hyaella* (Crustacea, Amphipoda, Hyaellidae) from the Puna biogeographic province in Argentina. ---- *ZooKeys* 865, 87-102. <https://doi.org/10.3897/zookeys.865.32878> (*H. puna* n. sp. from Salta, La Poma. With a synoptic key to high-altitude *Hyaella* in Argentina)

Peschke, K. 2019. *Zeitlich gestaffeltes Effektmonitoring mit limnischen Wirbellosen zur biologische Erfolgskontrolle des Aufbaus einer kommunalen Kläranlage mit einer vierter Reinigungsstufe*. ---- Dr Rer. Nat. Thesis, Univ. of Tübingen (Not seen)

Peters, K., K. Sink & T. B. Robinson 2019. Aliens cruising in: Explaining alien fouling macroinvertebrate species numbers on recreational yachts. ---- *Ocean and Coastal Management* 182, 104986. <https://doi.org/10.1016/j.ocecoaman.2019.104986>

Petrutina, A. S. & R. Huys 2020. A new species of Tantulocarida (Crustacea) parasitic on a deep-water cumacean host from the southwestern Atlantic, with a review of tantulocaridan host utilization, distribution, and diversity. ---- *Journal of Crustacean Biology*, ruaa020. <https://doi.org/10.1093/jcbiol/ruaa020> (Still only a single record from an amphipod host. Who finds the next one?)

Piscart, C., K. Ayati & M. Coulis 2019 *Cerrorchestia taboukeli* sp. nov., a new terrestrial amphipod (Amphipoda, Talitridae) from Martinique Island. ---- *European Journal of Taxonomy* 588, 1-14 <https://doi.org/10.5852/ejt.2019.588>. (*C. taboukeli* n. sp. from summit of Piton Boucher, Martinique. With a key to terrestrial amphipods from Central America and Caribbean Islands.)

Plump, R.D. 2019. The toxicological effects of the Mount Polley tailings impoundment breach on freshwater amphipods. — *University of Lethbridge MSc-thesis*, <https://hdl.handle.net/10133/5563>

Podlesińska, W. & H. Dąbrowska 2019. Amphipods in estuarine and marine quality assessment—a review. ---- *Oceanologia* 61, 179-196. <https://doi.org/10.1016/j.oceano.2018.09.002>

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NEW TAXA

(In the listing of new taxa we have included all that is available online or in print. This is a larger set of new taxa than what is covered as accepted new taxa by the International Code of Zoological Nomenclature (<http://www.iczn.org/code>). Taxa that are not as yet properly covered by the code as accepted (and thus not added to WoRMS (<http://www.marinespecies.org/>)) are marked with an * in font in the alphabetical list.)

ERRATA FROM AN 43:

Orientogidiella Sidorov, Ranga Reddy & Shaik, 2018 Austroniphargidae

is incorrect. This should (of course) be in the family Bogidiellidae. We apologize and thank Mikhail Daneliya for spotting this and bringing it to our attention!

HIGHER TAXA

Magnovioidea Alves, Lowry & Jonsson, 2020	superfamily
Protorchestoidae Myers & Lowry, 2020	(epifamily in Talitroidea)
Protodulichoidae Ariyama, 2019	superfamily
Talitroidae Rafinesque, 1815	(epifamily in Talitroidea)

FAMILIES and subfamilies

Arcitalitridae Myers & Lowry, 2020	
Floresorchestiinae Myers & Lowry, 2020	Talitridae
Galeatylinae Just, 2019	Atylidae
Lepechinellidae Schellenberg, 1926 (Upgraded) (Thurston & Horton, 2019)	
Magnovidae Alves, Lowry & Jonsson, 2019	
Parabogidiellidae Cannizaro, Gibson & Sawicki, 2020	
Protodulichidae Ariyama, 2019 (in Ariyama & Hoshino 2019)	
Protorchestiidae Myers & Lowry, 2020	
Pseudorchestoideinae Myers & Lowry, 2020	Talitridae

Uhlorchestiidae Myers & Lowry, 2020**GENERA**

Aokiorchestia Morino, 2020	Talitridae
Atlantiphoxus Andrade & Senna, 2020	Phoxocephalidae
Austropacifica Lowry & Springthorpe, 2019	Talitridae
Bathya Wang, Zhu, Sha & Ren, 2020	Calliopiidae
Caecorchestia Hegna & Lazo-Wasem, 2019 (in Hegna et al., 2019)	Talitridae
Carpentaria Lowry, Springthorpe & Myers, 2020	Protorchestiidae
Clippertonia Lowry & Myers, 2020	Talitridae
Exiliphotis Jung, Coleman & Yeon, 2019	Photidae
Galeatylus Just, 2019	Atylidae
Gazia Lowry & Springthorpe, 2019	Talitridae
Gondwanorchestia Lowry, Myers & Perez-Schultheiss, 2020	Talitridae
Leptorchestia Morino, 2020	Talitridae
Magnovis Alves, Lowry & Jonsson, 2020	Magnovidae
Miyamotoia Morino, 2020	Talitridae
Parapseudoaeginella Guerra-Garcia, 2020	Caprellidae
Protodulichia Ariyama (in Ariyama & Hoshino, 2019)	Protodulichidae
Pseudoliropus Guerra-Garcia & Ahyong, 2020	Caprellidae
Simplexia Cannizaro, Gibson & Sawicki, 2020	Parabogidiellidae
Stebbingiella Marques-Junior & Senna, 2020	Melphidippidae

SPECIES

anakao Lowry & Springthorpe, 2019 (<i>Talorchestia</i>)	Talitridae
australiensis Guerra-Garcia, 2020 (<i>Parapseudoaeginella</i>)	Caprellidae
australiensis Guerra-Garcia & Ahyong, 2020 (<i>Pseudoprotella</i>)	Caprellidae
biseta Morino, 2020 (<i>Leptorchestia</i>)	Talitridae
bonhami Andrade & Senna, 2020 (<i>Pseudoharpinia</i>)	Phoxocephalidae
bonnieri Othaitz & Sorbe, 2020 (<i>Eusirus</i>)	Eusiridae
bousfieldi Hegna & Lazo-Wasem, 2019 (in Hegna et al. 2019) (<i>Caecorchestia</i>)	Talitridae
brevicarpus Wang, Zhu, Sha & Ren, 2020 (<i>Bathya</i>)	Calliopiidae
bronco Jung, Coleman & Yeon, 2019 (<i>Photis</i>)	Photidae
bumbumiensis Nurshazwan, Ahmad-Zaki & Azman, 2020 (<i>Cerapus</i>)	Ischyroceridae
careocavata Jung, Coleman & Yeon, 2019 (<i>Latigammaropsis</i>)	Photidae

cheyennis Bueno, Oliveira & Wellborn, 2019 (<i>Hyaella</i>)	Hyalellidae
chichijimaensis Morino, 2020 (<i>Morinoia</i>)	Talitridae
ciscaucasicus Marin & Palatov, 2019 (<i>Niphargus</i>)	Niphargidae
cloqueti (Audouin, 1826) (<i>Talitrus</i>) rev.	Talitridae
contigua Ariyama, 2020 (<i>Grandidierella</i>)	Aoridae
coripes Just, 2019 (<i>Galeatylus</i>)	Atylidae
daitoensis Morino (<i>Miyamotoia</i>)	Talitridae
egmao Özbek & Güloğlu, 2019 (<i>Gammarus</i>)	Gammaridae
elizabethae Alves, Lowry & Jonsson, 2019 (<i>Magnovis</i>)	Magnovidae
ephemerus Cannizzaro & Sawicki, 2019 (<i>Crangonyx</i>)	Crangonyctidae
etyngovae Moskalenko, Neretina & Yampolsky, 2020 (<i>Eulimnogammarus</i>)	Gammaridae
fiseri Mamaghani-Shishvan & Esmacili-Rineh, 2019 (<i>Niphargus</i>)	Niphargidae
forchuensis Myers & Lowry, 2020 (<i>Orchestia</i>)	Talitridae
fortisetus Andrade & Senna, 2019 (<i>Cephalophoxoides</i>)	Phoxocephalidae
gazi Lowry & Springthorpe, 2019 (<i>Gazia</i>)	Talitridae
gegi Marin, 2019 (<i>Niphargus</i>)	Niphargidae
gigantea Kodama, Onitsuka & Kawamura, 2020 (<i>Sunamphitoe</i>)	Ampithoidae
globulosa Marques-Junior & Senna, 2020 (<i>Stebbingiella</i>)	Melphidippidae
gordankaramani Özbek & Sket, 2020 (<i>Rhipidogammarus</i>)	Gammaridae
inaequalipes (K. H. Barnard, 1951) (<i>Orchestia</i>) rev.	Talitridae
incisa Ariyama, 2020 (<i>Orientomaera</i>)	Maeridae
infirmichelata Andrade & Senna, 2019 (<i>Limnoporeia</i>)	Phoxocephalidae
insinuomanus Jung, Coleman & Yeon, 2019 (<i>Podoceropsis</i>)	Photidae
jajima Morino, 2020 (<i>Aokiorchestia</i>)	Talitridae
japonicoides Ariyama, 2020 (<i>Grandidierella</i>)	Aoridae
jinbe Tomikawa, Yanagisawa, Higashiji, Yano & Vader, 2019 (<i>Podocerus</i>)	Podoceridae
jonesyi Andrade & Senna, 2020 (<i>Pseudharpinia</i>)	Phoxocephalidae
joolaei Lee, Tomikawa, Nakano & Min, 2020 (<i>Pseudocrangonyx</i>)	Pseudocrangonyctidae
kaingang Reis, Penoni & Bueno, 2020 (<i>Hyaella</i>)	Hyalellidae
karamani Winfield & Hendrickx, 2020 (<i>Epimeria</i>)	Epimeriidae
keablei Guerra-García & Ahyong, 2020 (<i>Pseudoliropus</i>)	Caprellidae
kiiensis Ariyama, 2019 (<i>Ceradocus</i>)	Maeridae
koropokkuru Sidorov, 2020 (<i>Paramoera</i> (<i>Ganigamoera</i>))	Pontogeneiidae
lakshadweepensis Trivedi, Lowry & Myers, 2020 (in Trivedi et al. 2020)	
(<i>Talorchestia</i>)	Talitridae
laleyei Gnohossou & Piscart, 2019 (<i>Quadrivisio</i>)	Maeridae
liui Wang, Yu, Sha & Ren, 2020 (<i>Epimeria</i>)	Epimeriidae
longicarpus Jung, Coleman & Yeon, 2019 (<i>Photis</i>)	Photidae
longicrus Cannizzaro, Gibson & Sawicki, 2020 (<i>Simplexia</i>)	Parabogidiellidae

machidai White, 2019 (<i>Leucothoe</i>)	Leucothoidae
martynovi Marin & Palatov, 2020 (<i>Gammarus</i>)	Gammaridae
murrayae Guerra-Garcia, Keable & Ahyong, 2020 (<i>Paraproto</i>)	Caprellidae
nana Ariyama, 2020 (<i>Grandidierella</i>)	Aoridae
obtusimanus Andrade & Senna, 2019 (<i>Cephalophoxoides</i>)	Phoxocephalidae
ogilviae Ashford & Thurston, 2019 (in Ashford et al.) (<i>Acutocoxae</i>)	Podosiridae
ogumi Alves, Neves & Johnsson, 2020 (<i>Stenothoe</i>)	Stenothoidae
oxumae Alves, Neves & Johnsson, 2020 (<i>Leucothoe</i>)	Leucothoidae
pagei Andrade & Senna, 2020 (<i>Pseudharpinia</i>)	Phoxocephalidae
palmeirensis Streck-Marx & Castiglioni, 2019 (<i>Hyaella</i>)	Hyaellidae
panamensis Varela, 2020 (<i>Epimeria</i>)	Epimeriidae
parhobbsi Cannizaro & Sawicki (in Cannizaro et al., 2020) (<i>Crangonyx</i>)	Crangonyctidae
perezi Myers & Lowry, 2020 (<i>Orchestia</i>)	Talitridae
petila Jung, Coleman & Yeon, 2019 (<i>Exiliphotis</i>)	Photidae
planti Andrade & Senna, 2020 (<i>Pseudharpinia</i>)	Phoxocephalidae
plasticus Weston (in Weston et al. 2020) (<i>Eurythenes</i>)	Eurytheneidae
platycheles Guérin, 1832 (<i>Talitrus</i>) rev.	Talitridae
posterolobus Jung, Coleman & Yeon, 2019 (<i>Photis</i>)	Photidae
pseudoclavapes Jung, Coleman & Yeon, 2019 (<i>Podoceropsis</i>)	Photidae
pseudoephemerus Cannizzaro & Sawicki, 2019 (<i>Crangonyx</i>)	Crangonyctidae
pseudosakaensis Ariyama, 2020 (<i>Grandidierella</i>)	Aoridae
puna Peralta & Miranda, 2019 (<i>Hyaella</i>)	Hyaellidae
sagamiensis Ariyama, 2020 (<i>Maera</i>)	Maeridae
scandens Ariyama & Hoshino, 2019 (<i>Protodulichia</i>)	Protodulichidae
schmitti Lowry & Myers, 2020 (<i>Clippertonia</i>)	Talitridae
shoemakeri Andrade & Senna, 2020 (<i>Heterophoxus</i>)	Phoxocephalidae
spinolabrum Morino, 2020 (<i>Miyamotoia</i>)	Talitridae
spongoteris Peart, Spong, Sutherland & Kelly, 2019 (<i>Polycheria</i>)	Dexaminidae
stoddartae Hughes, 2020 (<i>Lepidepecreoides</i>)	Tryphosidae
tabladoi Myers & Lowry, 2020 (<i>Orchestia</i>)	Talitridae
taboukeli Piscart, Ayati & Coulis, 2019 (<i>Cerrorchestia</i>)	Brevitalitridae
tepehuana Marron-Becerra, Hermoso-Salazar & Rivas, 2020 (<i>Hyaella</i>)	Hyaellidae
tchernykhi Moskalenko, Neretina & Yampolsky, 2020 (<i>Eulimnogammarus</i>)	Gammaridae
tepehuana Marron-Becerra, Hermoso-Salazar & Rivas, 2020 (<i>Hyaella</i>)	Hyaellidae
trispina Gasca & Hendrickx, 2020 (<i>Scina</i>)	Scinidae
tristanensis Lowry, Myers & Perez-Schultheiss, 2020 (<i>Gondwanorchestia</i>)	Talitridae
tropicalis Lowry, Springthorpe & Myers, 2020 (<i>Carpentaria</i>)	Protorchestiidae
tunica White, 2019 (<i>Leucothoe</i>)	Leucothoidae
unicoxae Wang, Zhu, Sha & Li, 2019 (<i>Parandania</i>)	Stegocephalidae

urmiensis Mamaghani-Shishvan & Esmaili-Rineh, 2019 (<i>Niphargus</i>)	Niphargidae
xabriaba Reis, Penoni & Bueno, 2020 (<i>Hyaella</i>)	Hyaellidae
wajapi Andrade & Senna, 2020 (<i>Atlantiphoxus</i>)	Phoxocephalidae
wonkimi Lee, Tomikawa & Min, 2020 (<i>Pseudocrangonyx</i>)	Pseudocrangonyctidae

Taxonomic overview

Ampithoidae

Sunamphitoe **gigantea**

Aoridae

Grandidierella **contigua, japonicoides, nana, pseudosakaensis**

Atylidae

Galeatylinae

Galeatylus coripes

Brevitalitridae

Cerrorchestia **taboukeli**

Calliopiidae

Bathya brevicarpus

Caprellidae

Paraproto **murrayae**

Parapseudoaeginella australiensis

Pseudoliropus keablei

Pseudoprotella **australiensis**

Crangonyctidae

Crangonyx **ephemerus, parhobbsi, pseudoephemerus**

Dexaminidae

Polycheria **spongoteris**

Epimeriidae

Epimeria **karamani, liui, panamensis**

Eurytheneidae

Eurythenes **plasticus**

Eusiridae

Eusirus **bonnieri**

Gammaridae

Eulimnogammarus **etingovae, tchernykhi**Gammarus **egmao, martynovi**Rhipidogammarus **gordankaramani**

Hyalellidae

Hyalella **cheyennis, kaingang, palmeirensis, puna, tepehuana, xabriaba**

Ischyroceridae

Cerapus **bumbumiensis****Lepechinellidae**

Leucothoidae

Leucothoe **machidai, oxumae, tunica**

Maeridae

Ceradocus **kiiensis**Maera **sagamiensis**Orientomaera **incisa**Quadrivisio **laleyei****Magnovidae****Magnovis elizabethae**

Melphidippidae

Stebbingiella globulosa

Niphargidae

Niphargus **ciscaucasicus, fiseri, gegi, urmiensis****Parabogidiellidae**

Simplexia longicrus

Photidae

Exiliphotis petilaLatigammaropsis **careocavata**Photis **bronco, longicarpus, posterolobus**Podoceropsis **insinuomanus, pseudoclavapes**

Phoxocephalidae

Atlantiphoxus wajapiCephalophoxoides **fortisetus, obtusimanus**Heterophoxus **shoemakeri**Limnoporeia **infirmichelata**Pseudharpinia **bonhami, jonesyi, pagei, planti**

Podoceridae

Podocerus **jinbe**

Podosiridae

Acutocoxae **ogilviae**

Pontogeneiidae

Paramoera (Ganigamoera) **koropokkuru****Protodulichidae****Protodulichia scandens**

Protorchestiidae

Carpentaria tropicalis

Pseudocrangonyctidae

Pseudocrangonyx **joolaei, wonkimi**

Scinidae

Scina **trispina**

Stegocephalidae

Parandania **unicoxae**

Stenothoidae

Stenothoe **ogumi**

Talitridae

Aokiorchestia **jajima**

Austropacifica

Caecorchestia **bousfieldi**

Clippertonia **schmitti**

Gazia **gazi**

Gondwanorchestia **tristanensis**

Leptorchestia **biseta**

Miyamotoia **daitoensis**, **spinolabrum**

Morinoia **chichijimaensis**

Orchestia **forquensis**, **inaequalipes** (rev.), **perezi**, **tabladoi**

Talitrus **cloqueti** (rev.), **platycheles** (rev.)

Talorchestia **anakao**, **lakshadweepensis**

Tryphosidae

Lepidepecreoides **stoddartae**

Compilation of Amphipod relevant literature

Please tell the AN editors and Olli Coleman about your recent publications on amphipods - and send a pdf of your paper. Olli can include it on the server and the editors can include it in the bibliography....

Updates on the 19th ICA

Following the meeting of the Tunisian organisation committee, we decide in this uncertain time and because the pandemic to postpone the next ICA to 2022 .

The date of the next ICA will be in autumn 2022. It will held in Jerba Island and a web site of the colloquium is under construction.

All the best
Faouzia Charfi



Gulf and Island of Djerba on the Kitab-i Bahriye (Book of Navigation) . Picture from Wikimedia commons - uploaded by Piri Reis

How do you get in touch with the Amphipod Newsletter?

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The Old Photo

During his presentation at the 18th ICA in Dijon August 2019, José Guerra-García showed several old photos from the early amphipod meetings. José has shared these photos with the AN, and we plan to share them here, to make sure everybody have the possibility to enjoy these photographic gems. Thank you to José for collecting these pictures, and for making them available to everybody.

We have tried to annotate the photos, but many names are missing or even uncertain. If anybody who are in the pictures (or who recognises people not named or wrongly named in the annotated photos) could help us with names of the participants, we will be very happy for the help. Please email the editors - we promise to share the updated annotations!



Lyon 1973 (photographer unknown)

And the original (without annotations):

